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1. c: Grid and Cloud Computing

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Grid deployments such as the Open Science Grid (OSG) in the U.S. and the Worldwide Large Hadron Collider (LHC) Computing Grid (WLCG) in Europe provide standardized infrastructures for scientific computing across large numbers of distributed facilities. To support these infrastructures, new computing paradigms have emerged to emerge: (1) Grid Computing, sometimes called “computing on demand,” w ...

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2. d: Software-driven Network Architectures for Data Acquisition

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Modern data acquisition systems are becoming more heterogenous and distributed. This presents new challenges in synchronization of the different elements of this event-driven architecture. The building blocks of the data acquisition system are digitizers, either flash digitizers or integrating digitizers of time, pulse height or charge. These elements respond in real-time to convert electrical sig ...

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3. e: Heterogeneous Computing

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Computationally demanding theory calculations as well as detector simulations and data analysis tasks can be significantly accelerated by the use of general purpose Graphics Processing Units (GPUs). The ability to exploit these accelerators is constrained by the effort required to port the software to the GPU environment. More capable cross compilation or source to source translation tools are nee ...

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4. f: Other

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above. Questions - contact Manouchehr Farkhondeh, manouchehr.farkhondeh@science.doe.gov

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5. 33: Nuclear Physics Electronics Design and Fabrication

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

The DOE Office of Nuclear Physics seeks developments in detector instrumentation electronics with improved energy, position, timing resolution, sensitivity, rate capability, stability, dynamic range, durability, pulse-shape discrimination capability, and background suppression. Of particular interest are innovative readout electronics for use with the nuclear physics detectors described in Topic 3 ...

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6. a: Advances in Digital Electronics

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Digital signal processing electronics are needed to replace analog signal processing in nuclear physics applications. Grant applications are sought to develop: fast digital processing electronics that improve the accuracy of the analog electronics, such as in determining the position of interaction points (of particles or photons) to an accuracy smaller than the size of the detector segments. Emph ...

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7. b: Circuits

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Grant applications are sought to develop custom-designed integrated circuits, as well as circuits (including firmware) and systems, for rapidly processing data from highlysegmented, position-sensitive germanium detectors (pixel sizes of approximately 1 cm2) and from particle detectors (e.g., gas detectors, scintillation counters, silicon drift chambers, silicon strip detectors, particle calorimete ...

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8. c: Advanced Devices and Systems

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Grant applications are sought for improved or advanced devices and systems used in conjunction with the electronic circuits and systems described in subtopics a and b: Areas of interest regarding devices include (1) wide-bandgap semiconductors (i.e., semiconductor materials with bandgaps greater than 2.0 electron volts, including Silicon Carbide (SiC), Gallium Nitride (GaN), and any III-Nitride a ...

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9. d: Active Pixel Sensors

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Active Pixel Sensors in CMOS (complementary metal-oxide semiconductor) technology are replacing Charge Coupled Devices as imaging devices and cameras for visible light. Several laboratories are exploring the possibility of using such devices as direct conversion particle detectors. The charge produced by an ionizing particle in the epitaxial layer is collected by diffusion on a sensing electrode i ...

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10. e: Manufacturing and Advanced Interconnection Techniques

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Grant applications are sought to develop (1) manufacturing techniques for large, thin, multiple-layer printed circuit boards (PCBs) with plated-through holes, dimensions from 2m x 2m to 5m x 5m, and thicknesses from 100 to 200 microns (these PCBs would have use in cathode pad chambers, cathode strip chambers, time projection chamber cathode boards, etc); (2) techniques to add plated-through holes, ...

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